

# METHOD AND APPARATUS OF DETECTING ISI/ICSI IN AN OFDM SYSTEM

## Abstract

A method for detecting inter-carrier-symbol interference (ICSI) in an OFDM system includes the steps of computing a first correlation value representing the correlation between at least one of first signals of a first symbol and at least one of second signals of a second symbol previous to the first symbol, wherein the first signal is transmitted via a first sub-carrier and the second signal is transmitted via a second sub-carrier adjacent to the first sub-carrier; computing a second correlation value representing the correlation between the at least one first signal and at least one of third signals of a third symbol next to the first symbol, wherein the signal is transmitted via the first sub-carrier and the third signal is transmitted via the second sub-carrier; comparing the first correlation value with the second correlation value; and adjusting the timing of the boundary according to the comparison result.